

Polar Bioscience

No. 13

CONTENTS

Effect of ice algal community on the increase of chlorophyll <i>a</i> concentration during spring in coastal water of the Sea of Okhotsk <i>Satoru Taguchi, Fumio Satoh, Soshi Hamaoka, Mitsuo Ikeda, Masao Ishikawa and Kunio Shirasawa</i> ...	1
Initial incorporation of phytoplankton into young ice in Saroma Ko lagoon, Hokkaido, Japan <i>Yoko Niimura, Takashi Ishimaru and Satoru Taguchi</i> ...	15
Photosynthetic characteristics of phytoplankton off Adélie Land, Antarctica, during the austral summer <i>Toru Hirawake, Hiroo Satoh, Takashi Ishimaru and Yukuya Yamaguchi</i> ...	28
Acclimation of photosynthetic properties in psychrophilic diatom isolates under different light intensities <i>Tohru Ikeya, Yasuhiro Kashino, Sakae Kudoh, Satoshi Imura, Kentaro Watanabe and Mitsuo Fukuchi</i> ...	43
Spatial distribution of copepods in fast ice of eastern Antarctica <i>Kerrie M. Swadling, Andrew D. McPhee and Andrew McMin</i> ...	55
Biological characteristics of euphausiids preyed upon by Adélie penguin, <i>Pygoscelis adeliae</i> , breeding at Hukuro Cove, Lützow-Holm Bay in 1995/1996 <i>Yoshinari Endo, Hiroshi Asari and Yutaka Watanuki</i> ...	66
Temperature-dependent tonic contraction of smooth muscle in Antarctic fishes <i>Notothenia neglecta</i> and <i>Chaenocephalus aceratus</i> —Role of calcium ions and responses to acetylcholine <i>Wilma Pereira Bastos-Ramos, Katsumasa Hoshino and Metry Bacila</i> ...	74
Preliminary report of swimming behavior and the response to temperature of lacustrine masu salmon, <i>Oncorhynchus masou</i> Brevoort, monitored by data logger during the spawning migration in Lake Toya <i>Yasuhiko Naito, Hideji Tanaka and Hiroshi Ueda</i> ...	87

Analysis of diving behavior of Adélie penguins using acceleration data logger	<i>Nobuaki Arai, Maki Kuroki, Wataru Sakamoto and Yasuhiko Naito</i> ...	95
Preliminary investigations of prey pursuit and capture by king penguins at sea	<i>Yan Ropert-Coudert, Katsufumi Sato, Akiko Kato, Jean-Benoît Charrassin, Charles-André Bost, Yvon Le Maho and Yasuhiko Naito</i> ...	101
Distribution of soil algae at the monitoring sites in the vicinity of Syowa Station between austral summers of 1992/1993 and 1997/1998	<i>Shuji Ohtani, Kousuke Suyama, Hiroki Yamamoto, Yukari Aridomi, Ritsuko Itoh and Yoshiko Fukuoka</i> ...	113
Extensive forest leaf area survey aiming at detection of vegetation change in subarctic-boreal zone	<i>Tomoko Kusakabe, Hayato Tsuzuki, Gary Hughes and Tatsuo Sweda</i> ...	133
Notes on floral traits and gender expression of <i>Dryas octopetala</i> under a simulated environmental change	<i>Naoya Wada and Hiroshi Kanda</i> ...	147
Note to contributors		152
Author index		154